The 50 MH3 DX Bulletin

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The 50 MHz DX Bulletin was founded by Harry Schools KA3B. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are \$20 U.S. third class mail, \$25 U.S./Canada/Mexico airmail, \$25 by surface or \$30 airmail elsewhere for 12 issues. Circulation matters and DX reports should be sent to 12450 Skyline Blvd., Woodside, CA 94062-4541 USA. If you can reach the Internet, my address there is frank@marie.sri.com or frank@crvax,sri.com; if you cannot, and have packet, try K6FV@N0ARY.#NOCAL.CA.USA.NA. The Bulletin may be freely quoted, provided that credit is given.

Six Meters Opens from ZL to U.S.!

As a result of monitoring indicators below 50 MHz, Kerry ZL2TPY caught an opening to the U.S.A. January 13. He first raised N5JJS/5 in EM32 at 0047, followed by WD5EWD in EM22 at 0115, WD5K in EM12, N5QJH in EM13, W5EU in EM12 at 0123, and finally WB5LUA at 0132. W5EU also worked ZL2KT and ZL1THQ. Kerry believes the opening is the result of an Es to F2 hookup as there was a large Es opening taking place in the U.S.A. and Mexico at the time.

But wait, there's more! W2CAP/1 relays a message from W3IWU in FN20 in which he relates: "For about 2 minutes at 0046Z 13 January, I heard both ends of a ZL2TPY - N7JJS/5 QSO on 50.110 SSB. Unfortunately no QSO from here. ZLs were worked by other W5s at least as late as 0130 from MS,LA and TX. ZL video on 45.24 and 45.26 was present and remained in until approx 0200z. At the same time extensive East coast opening into single hop W4's and W5's with double hop to XE1J (DK89). Moral: Never give up!!!"

Dan Gautschi writes that, because 50 MHz is still very restricted in HB9, he is only on crossband. He was very pleased to read our meager 144 MHz news, as that is where he works most of his DX, including 1800+ EME QSOs with 586 different stations. He is QRV on 144.015± QRM during EME activity weekends.

New Proposed 50 MHz DX Windows

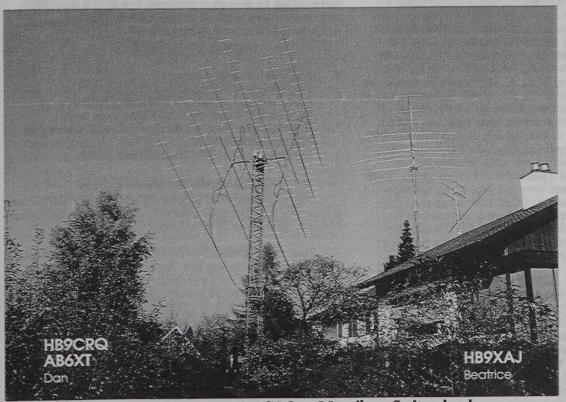
by Sam Goda, WA6JRA

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Since worldwide 6M amateurs seem to have not learned from solar cycles 20, 21, and 22, I am presenting a new paper in a summary format. This paper introduces: 1. A new CW international super DX calling frequency, 50.0100 MHz zero beat for marginal F2 openings, summer long-haul (3-7 hops) sporadic-E openings, and to avoid the up-band QRM; 2. A new CW calling frequency 50.0950 zero beat for both international DX and continental U.S., with a new CW window 50.090 to 50.100 for clear CW work, minimizing CW QRM around 50.110 and 50.125, selected use during summer Es and winter F2 seasons, and possible long-haul Es during regular Es CQs. During F2 seasons, the CW window will attract more worldwide CW operators to this 10 kHz, 3. a new USB international DX calling frequency 50.110 with the new USB DX window 50.100 to 50.125, without CW QRM; 4. to maintain the USB continental U.S. calling frequency 50.125; 5. to properly use 6M DX liaison

frequency 28.885 with alternates. Critical path F2 and long-haul Es should be coordinated between 28.870 to 28.880 for CW operation on 50.0950± or 50.0100. For non-critical liaison and U.S. QSOs, 28.890 to 28.910 should be used.

While simulating CW/USB contacts into a dummy load, the amateur should practice using split VFOs, memories, RIT/XIT, and instant switching of modern transceivers to tune from 50.000, many stops at above frequencies, to 50.200 (upper frequency during big F2 & Es openings). Then this should be applied to local, scatter, Es, and long-haul Es contacts so that the procedures will be semi-automatic by the end of cycle 22. If this



January's photo: HB9CRQ at Menziken, Switzerland

Summary of New 50 MHz DX Windows Proposed by WA6JRA:

50.000-50.010	EME	Please keep off non-EME.
50.0100	CW international super DX calling frequency.	50.01000 MHz zero beat. Also long-haul sporadic-E.
50.015-50.085	CW international beacons.	50.XXXX zero beat. Stable and clean signal.
50.090-50.100	CW international DX and U.S. calling frequency	50.0950 zero beat.
50.100-50.125	USB international DX window.	The new USB international DX window.
50.110	USB international DX calling frequency.	Please keep CW off of 50.110 & USB int. DX window.
50.125	USB continental U.S. calling frequency.	Please QSY up. Please keep CW off of 50.125.
50.300	FM frequency	Please keep all FM above 50.300.
50.400	AM frequency	Please keep all AM above 50.400.
28.870-28.880	6M DX liaison alternate lower frequencies.	Critical F2 & long-haul Es on 50.0950± or 50.0100.
28.885	6M DX liaison main frequency.	Please QSY off for not critical DX liaison.
28.890-28.910	6M DX liaison alternate upper frequencies.	For not critical liaison and U.S. QSOs.

relatively simple 6M band plan & procedures will be properly applied, cycle 23 will be clean. If not properly applied, there may be a repeat of some 6M QRM problems of cycles 21-22.

Finally after three cycles, 6M amateurs have partially accepted 50.100 to 50.125 as the DX window during cycle 22. Also most U.S. contacts above 50.125 have been accepted. However, there are misunderstandings and misuse of the so-called DX window. Experienced & Extra-class U.S. amateurs are over-using CW in this window, especially on 50.110. Foreign DXers are following the Americans. In Southern California, Extra class operators are using 50.110 for their exclusive CW/USB DX frequency; and when a local Technician calls CQ DX on 50.110 USB, he is called a LID, QRMed, and chased off. Yet these same operators will use 50.110 for USB and reserved for CW; a double-standard operating practice.

No amateur or group has exclusive right to any frequency. In the 6M band, all license classes above the Technician have equal privileges. This means that no-code Technicians can use USB on 50.100-50.125 to work international DX. Since the FCC regulations state that both CW & phone emissions are permitted above 50.100 to 54.000, we cannot exclude the CW mode in this window. This presents a dilemma and I recommend the following: 1. Frequencies 50.100 to 50.125 shall be used mainly for the USB international DX window. 2. Higher class and more experienced operators should use USB, should use CW in the CW window, and should have patience with those less qualified. 3. If a CW DX signal were heard above RST 429 on 50.110, the U.S. station should call him on USB. 4. U.S. amateurs should not make CW calls from 50.100-50.125, especially on 50.110, unless they really feel that conditions are very marginal. 5. DX contacts should be shared with other amateurs, and no U.S. amateur should try to hide the DX contact with fast CW. 6. No higher class or experienced amateur has the right to QRM, harass, or chase off a lower class amateur; or any amateur not a member of a particular 6M clique group. 7. In cycle 22, most Technicians were still unable to work many choice DX countries because of their inability to copy CW. Upgrading takes six months, and there is no excuse to be unable to copy CW in a band where CW & USB must be properly used, mixed, and switched. 8. This paper shows how to use CW/USB to an advantage, not the reverse.

Please use extreme caution when operating near the lower edge of the phone band, 50.101 and the lower edge of the CW band, 50.001. The FCC rules do not permit phone components below 50.100 on a calibrated separate receiver; tests I have made of several 6M transceivers show that U.S. amateurs should not transmit below 50.103 USB with even the better transceivers. When calling a DX station on 50.101 USB, please use caution: +2.0 kHz split VFOs, transmit on 50.103 & use the RIT = -2.0 kHz, or transmit on CW with a

700 Hz note on 50.101. Transmitter and receiver CW/USB tracking zero beat frequencies 50.0000, .0100, .0950, .1000, .1100, .1250, and the 700 Hz note frequency in the CW mode (actually received in LSB/USB) should be checked with a calibrated receiver, generator, & frequency counter.

First realizing 6M problems in 1969, experiencing & documenting very severe 6M problems to 6/1993, and writing three in-depth papers¹, I am now writing a one page summary because of previous: misinterpretations, ignorance, inability to read, coverups, 6M business-as-usual, and short attention span of U.S. amateurs. Although in summary form, this paper contains updated information on the only definitive 6M band plan applicable to beyond cycle 25. Please do not file away this paper to be soon forgotten. I sincerely request the cooperation of all worldwide 6M amateurs, the ARRL, and the FCC.

I am the writer, typist, and publisher of this paper; and I am solely responsible for its content. Constructive comments should be sent only to the writer. This paper is not connected with any radio organization or any manufacturer. Until 8/1/95 (approximate end of cycle 22), this paper will be available free upon receipt of an SASE. Clearly write the title, call sign, name, and properly addressed legal size SASE. Please make copies for interested amateurs; however, a permission and credit will be required in radio club newsletters, conference proceedings, or magazines.

Notes

Available by special request:
 Proposed 50 MHz Band Plan, QST 10/1978, page 68.
 Recommended 50 MHz DX Window, 9/30/91.
 50 MHz DX Windows, 6/2/93 (five page thesis).

2. Even happened to a W4 during HI-CA-FL-Caribbean F2 opening, 3/1992.

3. Evaluation of 50 MHz Transceivers, 1/2/94.

Comments by Your Editor

Sam requested that I publish the above paper and the one in note 3 in full. Doing so does not constitute an endorsement by me or the bulletin of the opinions expressed therein.

How about it, folks? Is 10-15 kHz enough for ordinary CW operations, including MS, Aurora, and working strings of JAs, or Gs? Do we have a problem with beacons being spread out over the entire bottom 100 kHz? In the bottom 15 kHz we have XE2HWB, DX1HB, JA2IGY, GB3BUX, ZS2SIX, VE7SIX, P29BPL, and SZ2DH (the latter 5 taken from the 94 callbook). EME operators need more flexibility to find a frequency clear at both ends of the path. TV video sidebands and computer radiation add more frequencies that must be avoided. I'm quite willing to move my receiver from .110 to .010 or .095, however, if the DX gang will use it.

Dec. 1993, Jan. 1994 DX Reports

The following reports of 50 MHz DX heard and worked are primarily courtesy of G4UPS, SM7AED, 9H5EE, JAIVOK, P29CW, ZL4AAA, ZL2TPY and VK3OT. Other reports this month have come from K6QXY and W2CAPperhaps more that I have forgotten. In the tabular listings, the year (1993) is understood, unless the month is 01 (in which case it's 1994) the day of the month precedes the time, and both are in UTC. A +to the right of the time indicates the observation was one of several in a time period and the observation time is probably later than stated. The call at the right is that of the observing station. Symbols V = Video Carrier, F = FM audio, B = beacon, C = CW, S = SSB.

News of Africa

Canary Islands:

10062121 EA8SIX/B	В	PY5CC
10112054+EH8ACW		PY5CC
10122014+EH8ACW		PY5CC

Ivory Coast:

1102320	TU2OJ	PY5CC

Madeira: CT3FT informed Six News that he will not be ORV on 6m this coming summer, as he plans to return to his native Northern Ireland from early May until the Autumn.

PY5CC
PY5CC

Mauritania:

10102137 5T/F5JKK	PY5CC
10112054+5T5JC	PY5CC
10132012+5T5JC	PY5CC
10142054 5T5JC	PY5CC
10192231 5T5JC	PY5CC
10212037 5T5JC	PY5CC
10242218 5T5JC	PY5CC
11252100 5T5JC	PY5CC
11292250 5T5JC	PY5CC

News of Asia

Asian TV:

01040430	ASIAN-TV	(-0715)	S1	V	P29CW
01070600	ASIAN-TV	(WEAK)	49.750	V	P29CW
01080800	ASIAN-TV	S2	49.750	V	P29CW

Cyprus: If anyone needs a ZC4MK QSL (6m only, no HF!) send to G0KOM via: 30 Gilsland Rd, Durranhill, Carlisle, Cumbria, CA1 2XD, UK.

Jordan: THE UKSMG has obtained permission to operate a 6m station in Jordan and has proposed operating from Amman during the last week of May and all of June. They have agreed to leave behind an antenna, transverter or radio, and a beacon, and would commit to having local Jordanian amateurs operate the station while they are there.

In order to achieve this goal, the UKSMG is soliciting donations to the "JY Equipment Fund." Donations to Byron Fletcher, 2 Slade Gardens, Codsail, Wolverhampton, Staffs, WV8 1BJ, England. Checks should be made payable to the "UK Six Metre Group" and cash can be sent in your local currency if you wish.

Kirghhiz Republic, UM8: Mike, ex-UL7GCC/UL8GC, reports that UL7 authorities recently refused amateurs an

official 6m allocation. He got married last summer and moved from Kazakh to Kirghhiz. He will be inquiring about a possible 6m permit there.

Malaysia:

12120845	TV		48.250	V	VK3OT
01040500	9M-TV	(-0715)	FAINT	V	P29CW
01080600	9M-TV	S1	48.250	V	P29CW

Japan:					
12090400	JH1WHS				VK3OT
12090740	JA2BZY				VK3OT
12090745	JH4UCR				VK3OT
12090800	JA6YBR/B		50.016	B	VK3OT
12090810	JA2BZY 55		50.110	S	VK3OT
12100445	JA6YBR/B	(-0500)		В	VK3OT
01040545	JA				VK3
01040547	JH0HQP				VK3OT
01040555	JH3CWA		50.095	C	VK3OT
01040559	JA1,2,3,4	,5,6,7,0	(-0702)		ZL4AAA
01040600	JH1WHS		50.150		VK3OT
	-JM1LIK/MOI	BILE 10W	55	S	VK3OT
01040615	JG1 IEF	(-0700)			P29CW
01040615	JH1WHS	(-0700)			P29CW
01040700	JA2IBY/B	(-0715)		B	P29CW
01060752	JA2DWZ				P29CW
01060806	JA2BZY		APRIL TOWN		P29CW
01070552	JA7ZMA/B		50.027	В	VK3OT
01070741	JA2IGY/B	VERY WE		B	VK3OT
01180420		FTERNOON	TEP)		VK3OT
01180427	JH1WHS				VK3OT
01180440	JK1PVI				VK3OT
01180445	JE2DWZ				VK3OT
01180448	JR0FEK				VK3OT
01180450	JH0HZO				VK3OT

Taiwan:

01020430 BV2FG, BV2HS (-	0630) JA
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News of Europe

Austria:

12131636	OE6FEG	59	S G4UPS
12141706	OE6FEG	59 JN76SW	S G4UPS

Belgium: From Frank, ON9CFB (& SM7AED's 6-meter Newssheet): "(On) 14 December I called the BIPT (RTT) and asked for information about the use of 50 MHz in 1994. I was told that we are allowed to use 6m for another year." Six News indicates that the Antwerp band I TV transmitter is still running and Belgium military stations can occasionally be heard on 50.100 MHz.

10112054+ON4KST	PY5CC
12252232 ON7YD	SM3EQY

Croatia:

12201605	9A3AT	559	JN86		C	G4UPS	
12091856	9A3FT	57	JN83FM	(1903)	S	G4UPS	

Denmark:

12022235 OZ3AEV. OZ3ZW

12022303	OZ1MAX	S	SM3EQY	AU
12022341	OZ6OL	S	SM3EQY	AU
12091725	OZ7IGY/B 559 (-1	740) B	G4UPS	
12121712	OZ3ZW 559	C	G4UPS	
12121749	OZ6VHF/B 579	В	G4UPS	
12121754	OZ1BVW 57 JO45	S	G4UPS	
12121802	OZ4VV 579	C	G4UPS	
12121820	OZ4MD & OZ2LD 599	C	G4UPS	
12130905	OZ7IGY/B 449 (-0	930) B	G4UPS	
12291040	OZ7IGY/B 559	В	G4UPS	
12291040-	HOZ2LD 569	C	G4UPS	

England:

12022230 GODJA	S SM3EQY AU	
12120858 G4UPS	SM7AED	
12121725 GB3LER 579	B G4UPS	
12130852 GAUPS	SM7AED MS	

S SM3EOY AU

12181534	G3SYC				SM3EQY
12181537	G7EXO				SM3EQY
12190945	G4XNS				SM3EQY
12240916	GB3LER/B	599	(-1215)	В	G4UPS
12241130	GB3RMK/B	569	(-1215)	В	G4UPS

Estonia:

12091635 ESOSIX/B 569 (-1644)B G4UPS

Finland:SM7AED's 6-meter Newssheet indicates that OH7AE/9, with operators OH7BO & OH8MSM, was supposed to be in KP17, 18, 27, & 28 on 50.135 from Dec 28 to Jan 5. No heard reports have been received yet. 12241210 OH3MF 599 KP20FR C G4UPS

France:

12121645+F1RG		(-1730)		SM7AED
12121645+F6DOK		(-1730)		SM7AED
12121716+F8ZWW 579		- MC - 177	C	G4UPS
12122138+F1BHB			S	SM7AED
12141844 F6ECS 59			S	G4UPS
12221730+F5BYM 59			S	G4UPS
12221730+FRENCH CARRIER	59	50.100		G4UPS
12221810 FRENCH CARRIER	59+	50.025		G4UPS
12222029 F6ECS 599 JN12			C	G4UPS

Germany: Six News indicates that the German PTT plans to allocate up to 1000 permits for 50 MHz during 1994, and will make a decision at the end of the year regarding any permanent allocation. German broadcast companies will soon start test transmissions with digital FM-radio in the 50 MHz range!

12221729	DL6NCI	59	J050	S	G4UPS
12221749	DJ2RE	579		C	G4UPS
12221753	DL7ZB	599	J051	C	G4UPS

Greece:

12201638 SVISIX/B 579 (-1647) B G4UPS

Iceland: Six News for Jan 94 carries a note by TF3LB indicating that the TF3SIX beacon is running again on 50.057 MHz after a two-year period QRT. It has been rebuilt by TF3LB and runs 8 W to a GP from HP94. TF3LB is now also ORV on 50 MHz with a permit lasting until the end of 1994.

Italy:

12091854	IK1IZB 5	7	S	G4UPS	
12091900	IK5NTE 59	(1925)	S	G4UPS	
12131758	IK8AUC 59	JN71	S	G4UPS	
12141746	12ADN 559	JN45	C	G4UPS	
12141759	I4CIL 58	JN64	S	G4UPS	
12201644	IK2QDX 57	JN45UR	S	G4UPS	
12201652	IK2JET 579	JN55FL	C	G4UPS	
12201656	IOCUT 55	JN61	S	G4UPS	
12201705	IK8DYD 599	JN71	C	G4UPS	
12201719	IKOOKY 55		S	G4UPS	
12201730	IK1EGC 59	JN35	S	G4UPS	
12221753-	+IKORWX 55		S	G4UPS	
12221840	IK5DHM 59	JN53	S	G4UPS	
12221843	IZADN 59	JN45	S	G4UPS	
12221857	I4SJZ 59	JN64	S	G4UPS	
12251703	IK2QDX 59	JN45	S	G4UPS	
12251706	ISCTE 57	JN53 &1810	S	G4UPS	

Luxembourg:

12261004	LX2DX	(rpt by G	4UPS)	SM3EQY
12261103	LX1BX	(rpt via	SM7AED)	SM3EQY

Macedonia: Six News reports that Bob, Z32BU, is now 100% QRV from KN01rx. He is using a YU1EU transverter and 25 W PA to a dipole. QSL via Box 467, 91000 Skopje, Macedonia (Tnx ON4PS).

Malta.

PY5CC
PY5CC
PY5CC

12221910	9H1SIX/B	559	(-1945)	В	G4UPS
12221916	9H5EE 59	JM75	ATTENDED OF	S	G4UPS

Moldavia: Six News has retracted its previous report of UO50K not being QRV on 6m. They state that "this information was received from a reliable source. However it seems to be inaccurate. Claus, DL7QY has supplied a photocopy of his QSL received for a 50 MHz QSO with UO5OK on July 19, 1993. The card was sent to UT5RP."

C CMSPOV AIT

Netherlands:

12030002 PAOPDY

12030002	PAORDY	S	SM3EQY	AU
Norway:				
	+LA9DM 59	S	G4UPS	
	LA1KHA 579 JO49		G4UPS	
12240916	LA TV INBAND (-0938)	V	G4UPS	
Poland:				
	SP3UCA 59 JO92		G4UPS	
	SP5CCC 59 KO02		G4UPS	
	SP4CHY 59 KO03GS		G4UPS	
	SP5XML 59 JO92UN	S	G4UPS	
12131607	SP3UCA 57 JO92	S	G4UPS	
	SP6GWB 59 J080	S	G4UPS	
Portugal:				
	CTOSMB/B 559	B	G4UPS	
	CTOWW/B 599		G4UPS	
10001/14	C10WW/ B 333	1101	01010	
Scotland:				
12022348	GM7NVA	S	SM3EQY	AU
12022358	GM4UPL	S	SM3EQY	AU
12030004	GM1 I KQ	S	SM3EQY	AU
Serbia:				
12111630	YU1		G3MY IC	93
12131649	YU1EU 599 KN04	C	G4UPS	
12131654	YU7AS 59 KN05	S	G4UPS	
	+4N1SIX/B 579		G4UPS	
	4N1SIX/B 589		G4UPS	
	YU1ABA 579 KN04	_	G4UPS	
12201606	4N1SIX/B 579	В	G4UPS	
Slovakia:				
12201606	OM3TTL 559 JN88	C	G4UPS	
Slovenia:				
	S55ZRS/B 579 (-<1820)	B	G4UPS	
	S59AM 59		G4UPS	
12131938			G4UPS	
	S55ZRS/B 569 (-1845)		G4UPS	
	S53ZW 599 JN86		G4UPS	
	S59UN 59 JN76	S	G4UPS	
	S53ZW 599 JN86	C	G4UPS	
12221904	S59AM 59	S	G4UPS	
12221906	S57AV JN65		G4UPS	
Spain:				
	EH3LL, EH7AH		PY5CC	

Sweden: From SM1CNS via SM7AED re December 19: "Conditions were so bad that the remote control to the TV-set did not work."

12091940 EH3AQJ 579 (-1957) WKG OK C 12092005 EH7AH 59 IM67OG (-<2020) S

IM67

IM87

12221716 EH1DVY/P 57 IN82RC &1743

12221753+EH3AQJ 599 12221810 EH3CUU 599 JN12FE

12221849 EH1EH 599 IN82

12221937 EH2LU 59+ IN92

12222041 EH3ADW 57 JN11

10112054+EH1AST

12221818 EH7BIH 59

12221850 EH7AH 59

12222003 EH7AJ 59

PY5CC

G4UPS S GAUPS

> G4UPS G4UPS

G4UPS G4UPS

G4UPS

G4UPS

G4UPS

G4UPS

S G4UPS

		01120017 WTTTG/F FF TW20	C ET OMDV
	V G4UPS AU	01130047 N7JJS/5 55 EM32	S ZL2TPY
	C G4UPS	01130115 WD5EWD EM13	S ZL2TPY
12050902 SM7AED 559	C G4UPS	01130123 W5EU 59 EM12	S ZL2TPY
12070854 SM7AED 559	C G4UPS	01130132 WB5LUA	S ZL2TPY
12090902 SM7AED 559	C G4UPS		
12100900 SM7AED 559	C G4UPS	United States, East:	
12110903 SM7AED 569	C G4UPS	10272142 KS2T/B 01130046 ZL2TPY (-0048) 50.11	B PY5CC
12120858 SM7AED 599	C G4UPS	01130046 ZL2TPY (-0048) 50.11	O S W3IWU
	S G4UPS		
12121759 SK6SIX/B 559	B G4UPS	United States, West:	
12130852 SM7AED 579	C G4UPS		PY5CC
12121720 CM7FTF 570	C G4UPS	10150045 KB6IGC 12040435 W DM03 (-050	
12140901 SM7AED 559	C GAUPS C GAUPS		
12161212 SM7AED 579	C G4UPS	12060330 W DM03, DM13, DM06 (-035	VE7SKA AU
12170858 SM7AED 599	C G4UPS		VE7SKA AU
12200900 SM7AED 569	C G4UPS C G4UPS		VE7SKA AU VE7FEI TR?
12221220 SM7AED 579	C G4UPS		
12241150 CM7DAR 57 WKG DA /DT124	O S GATIPS		VE7FEI TR?
122519902 SM7AED 579 12260900 SM7AED 579 12261004 SM3EQY WKG LX2DX 12270901 SM7AED 569 12280901 SM7AED 579 12290900 SM7AED 559	C G4UPS		VE7FEI TR?
12260900 SM7AED 579	C GAUPS		O) VE7SKA
12261004 SM3EOV WKG LX2DX	G4UPS	12180243 KA1EYY DM04	VE7FEI
12270001 SM7AFD 569	C GAUPS	12180245 KD6EQW DM04	VE7FEI
12270901 SH7ADD 509	C GATIPS	12200251 AA7MJ DN40	VE7FEI
12200901 SM7ADD 579	C GATIPS	12200427 N7YAP DN07	VE7FEI
12290900 SM/AED 339	C G401B		B VE7FEI
*** 1		12210137 KR8L DN43	VE7FEI
Wales:			B K6QXY MS?
12110859 GW3SYL 559 IO81	C G4UPS		VE7FEI MS
		01031956 AJ6T CM87 01032009 W6WVK CM88 01032027 N7EYG CN84	VE7FEI MS
News of North Am	orica	01032009 W6WVK CM88	VE7FEI MS
MEM2 OF MOUTH WITH	Cilca	01032027 N7EYG CN84	VE7FEI MS
Canada:		01032100 KG7CN DN23	VE7FEI MS
	VE7FEI TROP	01130046 N7JJS/5 WKG ZL2TPY 50.11	O S W3IWU
1229 VE7MJT DN09	VE7SKA AU	01151817 W7US/B	B K6QXY
0112 VE7RJ DN09	C INTERNATION	01151817 WD7Z/B	B K6QXY
01120426 VE6CJC DO02	S VE7FEI AU		
01120440 VE6GRD DO02	C TETEL AU	News of Ocean	ia
01120451 VE6XT DO32	S VE7FEI AU S VE7FEI AU	News of Ocean	IIa
01120457 VE7RJ DN09	C VE7FEI AU	Australia, Capital Territory (VK1):	
01120516 VE7BEE DN09	C VETTEL AU		O JA3CEO
		12280356 VK1DO 50.11	O ORSCEQ
Leeward Is., St. Kitts:			ONJORG
	PY5CC	Australia, New South Wales (VK2):	ONSOBY
Leeward Is., St. Kitts: 11020112+V44KAI, V44KAO	PY5CC	Australia, New South Wales (VK2):	
11020112+V44KAI,V44KAO	PY5CC	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13	30 JH1BSJ
11020112+V44KAI, V44KAO Mexico:		Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15	30 JH1BSJ 35 JH1BSJ
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Mexico: 10120115 XE1AVM 10122231 XE1AVM 10122231 XE1AVM 10130010+XE1GE, XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130050 XE2UZL/B 01150005 XE1J DK89 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ, WP4ARJ 10042332 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10132335 KP4SQ 10192307 KP4HX 10242351 NP4NP, WP4KJJ 1111052 KP4EOR 11170008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64 12200225 WOLSD DM68	PY5CC PY5CC PY5CC B FY5CC B K6QXY MS? B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15 01010155 VK2,3,4 Es MUF 89-108 ME 01010801 VK2 01012320 VK2,3 Es MUF > 88 (-0207 01020250 VK2DVZ,ZAB 144.10 01040550+VK2GLS,ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040325 VK3DUT 50.14 12040358 VK3ANP 50.15 12040411 VK3DET 50.14 12040420 VK3AMK 50.18 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BKS 50.12 12100717 VK3DET 50.12 12100717 VK3DET 50.13 12100721 VK3LK 50.13 12100723 VK3YZP 50.13 12100729 VK3KAY 50.13	30 JH1BSJ 35 JH1BSJ 36 JH1BSJ 37 ZL4AAA 20 ZL4AAA 30 ZL4AAA 30 ZL4AAA 30 ZL4AAA 30 JA1VOK 30 JA1VOK 31 JA1VOK 31 JA1VOK 32 JH1BSJ 33 JH1BSJ 34 JH1BSJ 35 JH1BSJ 36 JH1BSJ 37 JA3JTG 37 JA3
Mexico: 10120115 XE1AVM 10122231 XE1AVM 10130010+XE1GE, XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130050 XE2UZL/B 01130122 XE2HWB 01150005 XE1J DK89 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ, WP4ARJ 10042332 KP4SQ 10112335 KP4SQ, WP4KJJ 10122359 KP4SQ 10112335 KP4SQ 10152300 KP4HX, KP4SQ 10180001 KP4HX, KP4SQ 10192307 KP4HX 10242351 NP4NP, WP4KJJ 11110052 KP4EOR 11170008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64	PY5CC PY5CC PY5CC B PY5CC B K6QXY MS? B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15 01010155 VK2, 3,4 EB MUF 89-108 ME 01010801 VK2 01012320 VK2,3 EB MUF > 88 (-0207 01020250 VK2DVZ, ZAB 144.10 01040550+VK2GLS, ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040325 VK3DUT 50.14 12040420 VK3AMK 50.15 12040421 VK3DET 50.14 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12100710 VK3DUT 50.12 12100717 VK3DET 50.12 12100718 VK3DUQ 50.13 12100721 VK3LK 50.13 12100722 VK3TMJ 50.13 12100729 VK3TMJ 50.13 12100729 VK3TMJ 50.13	30 JH1BSJ 35 JH1BSJ 32 ZL4AAA 214AAA 30 ZL4AAA 30 ZL4AAA 31 F05DR 30 JA1VOK 31 JA1VOK 31 JA1VOK 31 JH1BSJ 30 JA3JTG
Mexico: 10120115 XE1AVM 10122231 XE1AVM 10122231 XE1AVM 10130010+XE1GE,XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130050 XE2UZL/B 01150005 XE1J DK89 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ,WP4ARJ 10042332 KP4SQ 10112335 KP4SQ,WP4KJJ 10122359 KP4SQ 101122359 KP4SQ 101122359 KP4SQ 10152300 KP4HX,KP4SQ 10192307 KP4HX 10242351 NP4NP,WP4KJJ 11110052 KP4EOR 1170008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64 12200225 WOLSD DM68 12200235 WOMTK DM59	PY5CC PY5CC PY5CC B PY5CC B K6QXY B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15 01010155 VK2, 3,4 EB MUF 89-108 ME 01010801 VK2 01012320 VK2,3 EB MUF > 88 (-0207 01020250 VK2DVZ,ZAB 144.10 01040550+VK2GLS,ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040325 VK3DUT 50.14 12040358 VK3ANP 50.15 120404411 VK3DET 50.14 12040420 VK3AMK 50.18 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080424 VK3BXG 50.12 12080425 VK3DUT 50.12 12080426 VK3DUT 50.12 12080427 VK3BRZ 50.12 12080428 VK3JST 50.12 12080429 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080424 VK3BUT 50.12 12080425 VK3DUT 50.12 1200717 VK3DET 50.12 12100718 VK3DUD 50.13 12100721 VK3LK 50.13 12100726 VK3TMJ 50.13 12100729 VK3TMJ 50.13 12280402 VK3DUT 50.13	30 JH1BSJ 35 JH1BSJ 32 ZL4AAA 214AAA 30 ZL4AAA 30 ZL4AAA 31 F05DR 30 JA1VOK 31 JA1VOK 31 JA1VOK 31 JH1BSJ 30 JA3JTG
Mexico: 10120115 XE1AVM 10122231 XE1AVM 10130010+XE1GE,XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130050 XE2UZL/B 01151005 XE1J DK89 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ,WP4ARJ 10042332 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10152300 KP4HX,KP4SQ 10152300 KP4HX,KP4SQ 10192307 KP4HX 10242351 NP4NP,WP4KJJ 11110052 KP4EOR 1170008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64 12200225 WOLSD DM68 12200235 WOMTK DM59 12200249 W3XO/5 EM00	PY5CC PY5CC PY5CC B PY5CC B K6QXY MS? B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15 01010155 VK2,3,4 Es MUF 89-108 ME 01010801 VK2 01012320 VK2,3 Es MUF > 88 (-0207 01020250 VK2DVZ,ZAB 144.10 01040550+VK2GLS,ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040325 VK3DUT 50.14 12040325 VK3ANP 50.15 12040411 VK3DET 50.14 12040420 VK3AMK 50.18 12080421 VK3BRZ 50.11 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRX 50.12 12080423 VK3DUT 50.12 12100710 VK3DUT 50.12 12100710 VK3DUT 50.12 12100721 VK3LK 50.13 12100722 VK3YZP 50.13 12100723 VK3YZP 50.13 12280402 VK3DUT 50.13 12280402 VK3DUT 50.13	30 JH1BSJ 35 JH1BSJ 32 ZL4AAA 214AAA 30 ZL4AAA 30 ZL4AAA 31 F05DR 30 JA1VOK 31 JA1VOK 31 JA1VOK 31 JH1BSJ 30 JA3JTG
Mexico: 10120115 XE1AVM 10122231 XE1AVM 10122231 XE1AVM 10130010+XE1GE,XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130050 XE2UZL/B 01150005 XE1J DK89 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ,WP4ARJ 10042332 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10152300 KP4HX,KP4SQ 10192307 KP4HX 10242351 NP4NP,WP4KJJ 11110052 KP4EOR 1117008 KP4HX 11260021 KP4EOR 117008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64 12200225 WOLSD DM68 12200235 WOMTK DM59 12200249 W3XO/5 EM00 12200250 W3XO/5 EM00	PY5CC PY5CC PY5CC B PY5CC B K6QXY B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15 01010155 VK2,3,4 E8 MUF 89-108 ME 01010801 VK2 01012320 VK2,3 E8 MUF > 88 (-0207 01020250 VK2DVZ,ZAB 144.10 01040550+VK2GLS,ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040358 VK3ANP 50.15 12040411 VK3DET 50.14 12040420 VK3AMK 50.18 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080424 VK3DUT 50.12 12080425 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12100610 VK3DUT 50.12 12100614 VK3BXG 50.12 12100718 VK3DUT 50.12 12100718 VK3DUT 50.12 12100721 VK3LK 50.13 12100722 VK3KAY 50.13 12100723 VK3YZP 50.13 12100726 VK3TMJ 50.13 121007275 VK3SIX/B 01040000 VK3SIX/B (-0700)	30 JH1BSJ 35 JH1BSJ 36 JH1BSJ 37 ZL4AAA 20 ZL4AAA 30 ZL4AAA 30 ZL4AAA 30 JA1VOK 30 JA1JTG 30 JA3JTG 30 JA3
Mexico: 10120115 XE1AVM 10122231 XE1AVM 10130010+XE1GE, XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130105 XE2UZL/B 01130122 XE2HWB 01150005 XE1J DK89 01151817 XE2UZL/B 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ, WP4ARJ 10042332 KP4SQ 10112335 KP4SQ, WP4KJJ 10122359 KP4SQ 10132335 KP4SQ 10152300 KP4HX, KP4SQ 10192307 KP4HX 10242351 NP4NP, WP4KJJ 11110052 KP4EOR 1170008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64 12200225 WOLSD DM68 12200235 WOMTK DM59 12200249 W3XO/5 EM00 12200250 W3XO/5 EM00 12200250 W3XO/5 EM00 12200250 W3XO/5 EM00 12200200 WD5K EM12	PY5CC PY5CC PY5CC B P5CC B K6QXY B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC P	Australia, New South Wales (VK2): 12040404 VK2GLS 50.15 12040417 VK2ZXC 50.15 01010155 VK2,3,4 E8 MUF 89-108 ME 01010801 VK2 01012320 VK2,3 E8 MUF > 88 (-0207 01020250 VK2DVZ,ZAB 144.10 01040550+VK2GLS,ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040358 VK3ANP 50.15 12040411 VK3DET 50.14 12040420 VK3AMK 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BK 50.12 12080421 VK3BK 50.12 12080423 VK3DUT 50.12 12100718 VK3DUT 50.12 12100718 VK3DUT 50.12 12100718 VK3DUT 50.12 12100721 VK3LK 50.13 12100722 VK3TMJ 50.13 12100723 VK3YZP 50.13 12100726 VK3TMJ 50.13 12100729 VK3KAY 50.13 12280408 VK3XQ 50.13	30 JH1BSJ 35 JH1BSJ 36 JH1BSJ 37 ZL4AAA 20 ZL4AAA 30 ZL4AAA 30 ZL4AAA 30 JA1VOK 30 JA3JTG 30 JA3
Mexico: 10120115 XE1AVM 10122231 XE1AVM 10130010+XE1GE, XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130050 XE2UZL/B 01130122 XE2HWB 01150005 XE1J DK89 01151817 XE2UZL/B 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ, WP4ARJ 10042332 KP4SQ 10112335 KP4SQ, WP4KJJ 10122359 KP4SQ 10132335 KP4SQ 10152300 KP4HX, KP4SQ 10192307 KP4HX 10242351 NP4NP, WP4KJJ 11110052 KP4EOR 1170008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64 12200225 WOLSD DM68 12200235 WOMTK DM59 12200249 W3XO/5 EM00 12200300 WD5K EM12 12200301 WD5K EM12	PY5CC PY5CC B PY5CC B K6QXY B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15 01010155 VK2,3,4 Es MUF 89-108 ME 01010801 VK2 01012320 VK2,3 Es MUF > 88 (-0207 01020250 VK2DVZ,ZAB 144.10 01040550+VK2GLS,ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040325 VK3DUT 50.14 12040358 VK3ANP 50.15 12040411 VK3DET 50.14 12040420 VK3AMK 50.18 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12100610 VK3DUT 50.12 12100717 VK3DET 50.12 12100717 VK3DET 50.12 12100718 VK3DUQ 50.13 12100729 VK3KAY 50.13 12280402 VK3DUT 50.13 12100729 VK3KAY 50.13 12280402 VK3DUT 50.13 12100729 VK3KAY 50.13 12100729 VK3KAY 50.13 12100729 VK3KAY 50.13 12100729 VK3KAY 50.13 12280402 VK3DUT 50.13 12100729 VK3KAY 50.13 12100729 VK3KAY 50.13	30 JH1BSJ 35 JH1BSJ 32 ZL4AAA 214AAA 30 ZL4AAA 30 ZL4AAA 31 F05DR 30 JA1VOK 31 JA1VOK 31 JA1VOK 31 JA1VOK 31 JA3JTG
Mexico: 10120115 XE1AVM 10122231 XE1AVM 10122231 XE1AVM 10130010+XE1GE,XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130050 XE2UZL/B 01150005 XE1J DK89 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ,WP4ARJ 10042332 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10132335 KP4SQ 10180001 KP4HX,KP4SQ 10192307 KP4HX 10242351 NP4NP,WP4KJJ 11110052 KP4EOR 1170008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64 12200225 WOLSD DM68 12200235 WOMTK DM59 12200249 W3XO/5 EM00 12200300 WD5K EM12 12200311 WD5K EM12 12200311 WD5K EM12 12200313 WQ5Y EM20	PY5CC PY5CC B K6QXY B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC PY5	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15 01010155 VK2,3,4 EB MUF 89-108 ME 01010801 VK2 01012320 VK2,3 EB MUF > 88 (-0207 01020250 VK2DVZ,ZAB 144.10 01040550+VK2GLS,ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040325 VK3DUT 50.14 12040325 VK3ANP 50.15 120404411 VK3DET 50.14 12040420 VK3AMK 50.18 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080424 VK3BXG 50.12 12080424 VK3BXG 50.12 12080425 VK3DUT 50.12 12080426 VK3DUT 50.12 12080427 VK3BRZ 50.12 12080428 VK3JST 50.12 12080428 VK3JST 50.12 12080429 VK3DUT 50.12 12100610 VK3DUT 50.12 12100610 VK3DUT 50.12 12100717 VK3DET 50.12 12100718 VK3DUQ 50.13 12100721 VK3LK 50.13 12100722 VK3YDE 50.13 12100724 VK3TMJ 50.13 12280402 VK3DUT 50.13 12100725 VK3TMJ 50.13 12280402 VK3DUT 50.13 12280408 VK3XQ 50.13	30 JH1BSJ 35 JH1BSJ 32 ZL4AAA 214AAA 30 ZL4AAA 30 ZL4AAA 31 F05DR 30 JA1VOK 31 JA1VOK 31 JA1VOK 31 JA1VOK 31 JA1JTG 30 JA3JTG
Mexico: 10120115 XE1AVM 10122231 XE1AVM 10122231 XE1AVM 10130010+XE1GE,XE1ABA 10142330 XE2UZL/B 0103 XE2UZL/B WEAK ALL DAY 01050300 XE2UZL/B (-0400) 01130050 XE2UZL/B 01150005 XE1J DK89 01151817 XE2UZL/B Puerto Rico: 10032334 KP4SQ,WP4ARJ 10042332 KP4SQ 10112335 KP4SQ,WP4KJJ 10122359 KP4SQ 10112335 KP4SQ 10112335 KP4SQ 10152300 KP4HX,KP4SQ 10192307 KP4HX 10242351 NP4NP,WP4KJJ 11110052 KP4EOR 1170008 KP4HX 11260021 KP4EOR United States, Central: 10150045 W5VAS/B 12200217 W5FF DM64 12200225 WOLSD DM68 12200235 WOMTK DM59 12200249 W3XO/5 EM00 12200300 WD5K EM12 12200301 WD5K EM12 12200313 WQ5Y EM20	PY5CC PY5CC B PY5CC B K6QXY B K6QXY WD5K S K6QXY C ZL2KT B K6QXY PY5CC	Australia, New South Wales (VK2): 12040404 VK2GLS 50.13 12040417 VK2ZXC 50.15 01010155 VK2,3,4 Es MUF 89-108 ME 01010801 VK2 01012320 VK2,3 Es MUF > 88 (-0207 01020250 VK2DVZ,ZAB 144.10 01040550+VK2GLS,ZXC (-0655) 01162239 VK2GLK Australia, Victoria (VK3): 12030625 VK3OT 50.11 12040314 VK3SIX 50.11 12040325 VK3DUT 50.14 12040325 VK3DUT 50.14 12040358 VK3ANP 50.15 12040411 VK3DET 50.14 12040420 VK3AMK 50.18 12080421 VK3BRZ 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12080423 VK3DUT 50.12 12080421 VK3BRZ 50.12 12100610 VK3DUT 50.12 12100717 VK3DET 50.12 12100717 VK3DET 50.12 12100718 VK3DUQ 50.13 12100729 VK3KAY 50.13 12280402 VK3DUT 50.13 12100729 VK3KAY 50.13 12280402 VK3DUT 50.13 12100729 VK3KAY 50.13 12100729 VK3KAY 50.13 12100729 VK3KAY 50.13 12100729 VK3KAY 50.13 12280402 VK3DUT 50.13 12100729 VK3KAY 50.13 12100729 VK3KAY 50.13	30 JH1BSJ 35 JH1BSJ 32 ZL4AAA 214AAA 30 ZL4AAA 30 ZL4AAA 31 F05DR 30 JA1VOK 31 JA1VOK 31 JA1VOK 31 JA1VOK 31 JA3JTG

01070710-	+VK3DUT				P29CW
	VK3SIX/B	(FOR HOU		B	P29CW
01142345	VK3OT	(&150015			FO5DR
	VK3OT (hr		50.110		P29CW
01150000	VK3SIX/B	(-<0115)	В	P29CW
	Queensland	1 (VK4):			
12040358	VK4CV		50.130		JH1BSJ
12040555	VK4APG		50.170		JA1VOK
12040630			50.140		JA5CMO
12040655	VK4ARN		50.140	-	JA5CMO
	VK4BRB/B	ATT D	2.37		VK3OT
	+VK4RGG/B	ALL DI VK4ABP/B		В	VK3OT VK3OT
0101	VK4BRG/B,				ZL4AAA
	VK4RGG/B VK4BRG/B	(-01	(-0340)		ZL4AAA
	VK4RGG/B		(-0350)	_	ZL4AAA
	VK4RGG/B		(-2224)	-	ZL4AAA
	VK4BRG/B		(-2224)		ZL4AAA
	VK4,5 Es l	MUF > 88	(-02070	_	
	VK4 PAGER		148.040	,	ZL4AAA
	VK4RIK/B	(-07		B	P29CW
01050230	VK4JH	(-03	00)		JA
01050430	VK4RIK/B	TTO STATE		B	P29CW
01060705	VK4JH				P29CW
01060732		THUS DE NO.			P29CW
	FVK4RGG/B,	VK4BRG/B		B	VK3OT
01070630					VK3OT
010707104				1	P29CW
01080346			50.110		
	VK4RIK/B	(FOR HOU	RS)		P29CW
	VK4BRG/B				VK3OT
01200742			50.110	-	P29CW
01200745			50.120		P29CW
012007454		ONCDEACH	50.120		P29CW
	VK4ABP/B 1	LONGREACH	52.34/	В	P29CW
01200912	VK4DO			_	P29CW P29CW
01200940 01230800-		(<0830)		B	P29CW
01230800-	-AVAVIVA	(~0030)		D	FZJCH
Anetrolio	South (VK4	5).			
	South (VK	5):	E0 120		TAECMO
12040630	VK5BC	5):	50.120		JA5CMO
12040630 12040650	VK5BC VK5RO	5):	50.110		JA5CMO
12040630 12040650 12080434	VK5BC VK5RO VK5NC			R	JA5CMO JA3JTG
12040630 12040650 12080434 01040000	VK5BC VK5RO VK5NC VK5VF/B	(-0700)	50.110 50.120	В	JA5CMO JA3JTG P29CW
12040630 12040650 12080434 01040000 01040550+	VK5BC VK5RO VK5NC VK5VF/B VK5NC		50.110 50.120		JA5CMO JA3JTG P29CW JA
12040630 12040650 12080434 01040000 010405504 01050210	VK5BC VK5RO VK5NC VK5VF/B VK5VF/B	(-0700) (-0655	50.110 50.120	ВВ	JA5CMO JA3JTG P29CW JA P29CW
12040630 12040650 12080434 01040000 010405504 01050210 01050227	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK58	(-0700) (-0655 (-0330)	50.110 50.120	В	JA5CMO JA3JTG P29CW JA P29CW P29CW
12040630 12040650 12080434 01040000 010405504 01050210 01050227 01070345	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK58 VK5VF/B	(-0700) (-0655 (-0330) (FOR HOUR	50.110 50.120		JA5CMO JA3JTG P29CW JA P29CW
12040630 12040650 12080434 01040000 010405504 01050210 01050227 01070345 01150015	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK58	(-0700) (-0655 (-0330)	50.110 50.120	B B	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW
12040630 12040650 12080434 01040000 010405504 01050210 01050227 01070345 01150015 01150033	VK5BC VK5RO VK5NC VK5VF/B -VK5NC VK5VF/B VK58 VK5B VK5VF/B VK5VF/B VK5VF/B VK5UF/B	(-0700) (-0655 (-0330) (FOR HOUR	50.110 50.120 5)	B B	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW
12040630 12040650 12080434 01040000 010405504 01050210 01050227 01070345 01150015	VK5BC VK5RO VK5NC VK5VF/B -VK5NC VK5VF/B VK5B VK5VF/B VK5VF/B VK5VF/B VK5VF/B VK5VF/B	(-0700) (-0655 (-0330) (FOR HOUR	50.110 50.120 5)	B B	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150033 01150110 01162243	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK5B VK5F/B VK5F/B VK5LP VK5LP VK5LP VK5BC	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5)	B B	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150033 01150110 01162243	VK5BC VK5RO VK5NC VK5VF/B -VK5NC VK5VF/B VK5B VK5VF/B VK5VF/B VK5VF/B VK5VF/B VK5VF/B	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5)	B B	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150033 01150110 01162243	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK5B VK5F/B VK5F/B VK5LP VK5LP VK5LP VK5BC	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5)	B B	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150015 01150110 01162243	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK5VF/B VK5VF/B VK5LP VK5LP VK5LP VK5KVZ VK5BC	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5) RS) 50.120	BBBS	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW P29CW F05DR
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150033 01150110 01162243 Australia,	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK5B VK5VF/B VK5LP VK5LP VK5LP VK5KVZ VK5BC West (VK6)	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5) RS) 50.120 50.106 50.103 50.170	B B B S	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW P29CW P29CW P29CW P39CW P39CW P39CW P39CW
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150033 01150110 01162243 Australia, 12020357 12020359	VK5BC VK5RO VK5NC VK5VF/B VK5VC VK5VF/B VK5S VK5VF/B VK5VF/B VK5LP VK5LP VK5KVZ VK5BC West (VK6) VK6JJ VK6RO	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5) 35) 50.120 50.106 50.103 50.170 50.110	B B B S	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW P39CW P
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12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150033 01150110 01162243 Australia, 12020357 12020359 12040643 12040655	VK5BC VK5RO VK5NC VK5VF/B VV5NC VK5VF/B VK58 VK5VF/B VK5VF/B VK5UF/B VK5LP VK5KVZ VK5BC West (VK6) VK6JJ VK6PA VK6PA	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5) 35) 50.120 50.106 50.103 50.170 50.110 50.110	B B B S C C	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW P29CW JA1AUD JA1AUD JA1AUD JA1AUD JA5CMO JA5CMO JA5CMO
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150013 01162243 Australia, 12020357 12020359 12040643 12040655 12041005 12041010 12041035	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK5S VK5VF/B VK5LP VK5LP VK5KVZ VK5BC West (VK6) VK6JJ VK6RO VK6PA VK6PA VK6PA VK6JQ VK6YU VK6ZFG	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5) 35) 50.120 50.106 50.103 50.170 50.110 50.110 50.110	B B B S C C C	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW P39CW P29CW P39CW P30CW P
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150033 01150110 01162243 Australia, 12020357 12020359 12040643 12040655 12041005 12041010 12041035 12041050	VK5BC VK5RO VK5NC VK5VF/B VK5NC VK5VF/B VK5S VK5VF/B VK5LP VK5KVZ VK5BC West (VK6) VK6JJ VK6RO VK6PA VK6PA VK6PA VK6YU VK6ZFG VK6WG	(-0700) (-0655 (-0330) (FOR HOUR (-<0115)	50.110 50.120 5) 3S) 50.120 50.106 50.103 50.170 50.110 50.110 50.110 50.110	B BBS CC C	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW F05DR JA1AUD JA1AUD JA1AUD JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO
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12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150015 01150110 01162243 Australia, 12020357 12040643 12040655 12041010 12041035 12041050 12041100 12041100 12041100	VK5BC VK5RO VK5NC VK5VF/B VK5VF/B VK5VF/B VK5VF/B VK5VF/B VK5LP VK5KVZ VK5BC West (VK6) VK6JJ VK6RO VK6PA VK6PA VK6PA VK6PA VK6YU VK6ZFG VK6JJ VK6YU VK6YU VK6YU	(-0700) (-0655 (-0330) (FOR HOUE (-<0115)	50.110 50.120 5) 35) 50.120 50.106 50.103 50.170 50.110 50.110 50.110 50.110 50.110	B BBS CC C	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW P29CW F05DR JA1AUD JA1AUD JA1AUD JA1AUD JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO VK3OT ES
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150013 01150110 01162243 Australia, 12020357 12020359 12040643 12041005 12041010 12041035 12041010 12041010 12041010 12041010 12041010 12041010 12041010 12041010 12041010 12041010	VK5BC VK5RO VK5NC VK5VF/B VK5VF/B VK5VF/B VK5VF/B VK5VF/B VK5LP VK5KVZ VK5BC West (VK6 VK6DJ VK6PA VK6PA VK6PA VK6PA VK6YU VK6XFG VK6WG VK6WG VK6YU VK6AS	(-0700) (-0655 (-0330) (FOR HOUE (-<0115)	50.110 50.120 5) 35) 50.120 50.106 50.103 50.170 50.110 50.110 50.110 50.110 50.110	B BBS CC C	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW P29CW P29CW JA1AUD JA1AUD JA1AUD JA1AUD JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO VK3OT ES VK3OT
12040630 12040650 12080434 01040000 010405504 01050227 01070345 01150015 01150015 01150110 01162243 Australia, 12020357 12040643 12040655 12041010 12041035 12041050 12041100 12041100 12041100	VK5BC VK5RO VK5NC VK5VF/B VK5VF/B VK5VF/B VK5VF/B VK5VF/B VK5LP VK5KVZ VK5BC West (VK6) VK6JJ VK6RO VK6PA VK6PA VK6PA VK6PA VK6YU VK6ZFG VK6JJ VK6YU VK6YU VK6YU	(-0700) (-0655 (-0330) (FOR HOUE (-<0115)	50.110 50.120 5) 35) 50.120 50.106 50.103 50.170 50.110 50.110 50.110 50.110 50.110	B BBS CC C	JA5CMO JA3JTG P29CW JA P29CW P29CW P29CW P29CW P29CW P29CW P29CW F05DR JA1AUD JA1AUD JA1AUD JA1AUD JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO JA5CMO VK3OT ES
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12120900 VK	7.70		3000 KM	B		
	8RH				VK3OT	
01060430 VK		(-0630)			P29CW	
01070500+VK			1293190		VK3OT	
01080450 VK	8RH				P29CW	
01080502 VK	8VF/B	(FOR HOU	TRS)	B	P29CW	
0116 VK	8RH				P29CW	
01160445 VK	8VF/B (FOR HOUR	RS)	B	P29CW	
01230800-VK	8VF/B	(<0830)		B	P29CW	
Australia, Lo	rd Howe	Island:				
12090400 VK			re Is.)		VK3OT	
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Fiji: Bob Co	oper, ZL4	AAA, rep	orts heari	ng	Hindi la	nguage
broadcast pro	orammino	on 146 10	00 Januar	v 2	around	0100.
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01010350 3D	2 Fe MITE	98 8			ZL4AAA	
01020014 3D		F >95.4	(-0640)		ZL4AAA	
	2 ES MO	1 /95.4	50.130			
01160536 3D	ZER 33		50.130	3	AV201	
French Ocean	nia:					
01020400 FO	SDP/B	OPIED BY	WKST.K.	OT	VKSNC	
01122024 FO		OF IED BI	AKSLKI		ZL2TPY	
011422024 FO				D	ZL4AAA	
01142345 FO		/ C1 E 0 0 1 E	, 16 E		VK3OT	
		(&150015		-	VK3OT	
01142346 FO		4800KM	50.109			
01142346 FO		(-0015)	50.049	B	VK3OT	
01162239 FO					VK2GLK	
01162243 FO	5DR				VK5BC	
Hawaii:						
12220430 KH	SHME /B	(-1600)	144.17	R	KGOYY	TROP
12230430 KH		(-2000)	432.07			TROP
12230430 KB	OHME/B	(-2000)	432.07	D	VOOVI	IROP
Papua/New C	Guinea:					
12050517 P2			50.106		JA1VOK	
12090510 P2			50.110		JA5CMO	
12090950 P2		(-1110)	3400 KM		VK3OT	
	33	(-1110)				
12091000 P2			50.019			
12290805 P2			50.110		JA3JTG	
01040300 P2			50.120			
01040340 P2		0620	50.019	В		
01040550 P2					JA	
01040630 P2	9VPC				VK3OT	

12050517	P29CW		50.106		JA1VOK
12090510	P29CW		50.110	C	JA5CMO
12090950	P29CW	(-1110)	3400 KM		VK3OT
12091000	P29BPL/B		50.019	B	VK3OT
12290805	P29CW		50.110	C	JA3JTG
01040300	P29CW 57		50.120	S	VK3OT
01040340	P29BPL/B	&0620	50.019	B	VK3OT
01040550	P29CW				JA
01040630	P29VPC				VK3OT
01070500-	+P29BPL/B			B	VK3OT
01080450	P29CW			S	VK6

New Caledonia:		
12090340 FK8DH		VK3OT
12310053 FK8DH	50.140	VK3OT
01012355 FK8DH		ZL4AAA
01170745 FK1UH		VK3OT

New Zealand: Bob Cooper, ZL4AAA, reports a very productive 27+ hour trans-Tasman tropo session. FM broadcast from Queensland (typically 2100km/1250m+) appeared very suddenly at 0854 January 2 and lasted without fading out until past 1200 on January 3. A very stable high pressure area sat over the northern Tasman sea until a front from the south broke it up around 1200 on the 3rd.

144 MHz tropo: more than 60 VK2 & VK4 stations worked between 1980 km and 2350 km including VK2ZAB worked earlier in the day on Es. Signals were very stable and at times very strong. Examples: around 0900 on the 3rd, I

worked several VK2s near Coffs Harbour on 146.500 simplex FM and with me running 20 Watts to 4 element vertical yagi at 15m, I tested the power level required. The best was 300 mW run by VK2AWA with a vertical ground plane 2.5m above ground; and VK2BRG running 1 W to his hand-held rubber duckie at distances around 2040 km. Furthest south, Sydney; furthest north Bundaberg (Qld.)

432 MHz tropo: Worked 22 VK2 and 4 stations at distances between 1980 km and 2215 km. Best power/distances QSOs included VK4ANP running 10 W to a homebrew log periodic (2215 km) and VK2MZ running 16 W to a discone antenna (1990 km). Furthest south, Sydney; furthest north, 100 km NW of Brisbane.

In the best case, FM broadcast signal levels from Brisbane stations above 100 MHz reached within 6 dB of my nearest local FM station (12 km distant from me.) Best shot at longer hauls was at the beginning of the opening (1030-1200 on the 2nd) when Rockhampton (2568) and MacKay (2827 km) broadcast FM was very loud here, but no amateur activity at that time beyond 2350 km.

Cliff, ZL1MQ, reports that the tropo opening covered only the north end of ZL1, not going lower than Whangarei. He reported ZL1IU worked VK5NC and VK5DK in Mt.

Gambia, S. Australia January 2 on 144 MHz.

		-		
12170900	ZL2AGI ZL4TBN ZL4TBN ZL3MHF/B ZL2MHB/B			VK3OT
12180515	ZL4TBN		50.130	JA3JTG
12180625	ZL4TBN		50.140	S VK3OT
12180630	ZL3MHF/B		50.043	B VK3OT
12180635	ZL2MHB/B		51.028	B VK3OT
77700170	ZL2KT, ZL2	AYO		VK3OT
12180715-	+ZL3AAN, ZL	3ADT 59+		VK3OT
12180715	+ZL3TJZ			VK3OT
	FZL4MB, ZL4	AYO BADT 59+ LV 59+ ALL DA		VK3OT
	+ZL3MHF/B	ALL DA	Y :	B VK3OT
12210900	ZTZIŁA	(-1300)		VK3OT
12210900	ZL3MHF/B ZL4TBN	(-1300)	1	B VK3OT
12210900	ZL4TBN	(-1300)		VK3OT
	ZL4AAA			C JA3JTG
12300430			50.140	JA5CMO
0101	ZL3MHF/B,	ZL3TY		B VK3OT
01030250	ZL2TPY -ZL2TPY,ZL4	(-0310))	JA
01040550	FZL2TPY, ZL4	1AAA (-065	55)	JA
010707104	FZL4AAA			P29CW
01070810				P29CW
01080800		(-0930)		P29CW
0113	ZL2KT, ZL			W5EU
01130046		3 N7JJS/5	50.110	
011300504		14.		WD5K
01130100		(-0200)		WB5LUA
01142200				FO5DR
	ZL4AAA	TWO MTRS	OPEN	VK3OT
01150900				VK3OT
	ZL-TV	(-0230)	45.240	
01160000		(-0230)	45.250	V K6QXY
01160000		(-0230)	45.260	
01170937		IN TO ZL A	LL DAY)	VK3OT
01230800				VK3OT
	ZL-TV AUDI			
	-ZL3MHF/B	(<0830)		B P29CW
012308004				VK3OT
01230900	ZL4AAA (OF	EN ALL EV	ENING)	VK3OT

News of South America:

Argentina:

10132012	LU1DMA	PY5CC
11031824	LU1DMA, LU4DMX, LU7DZ	PY5CC
	LU1DMA, LW5EJU	PY5CC
10210138		PY5CC
11182001		PY5CC
11232215		PY5CC

Aruba:

11260021+P4/OZ1HJP PY5CC

Brazil, Fernando de Noronha:

11020112 PY0FF PY5CC 11032350 PY0FF PY5CC

Falkland Is.: Six News Jan 94, relays a report from Adrain, G0KOM (ex ZC4MK/VP8COI) that he heard nothing on 6m during his four month stay (May-Aug 1993). Just before his departure, the club station 3 element beam was destroyed in 80 mph gales. Two other stations have 6m equipment on the Falklands, however long working hours and little interest mean 6m is rarely (if ever) switched on.

Paraguay:

0 .		
10160101	ZP5PT	PY5CC
20200202	21011	22000
10210138	ZP5PT, ZP5ZR	PY5CC

Surinam:

10022344	PZ1EL	PY5CC
10130010	PZ1EL	PY5CC

Venezuela:

10060123 YV5ZZ PY5CC

Beacon News

Estonia: Six News reports that ES6SIX/B will probably have moved to 50.073 MHz by now. (Tnx SM0KAK.)

Poland: Six News reports two new beacons, SR5SIX in KO02 and SR6SIX in JO81, but the frequencies are unknown at press time.

Sabah: Six News reports that a beacon on 50.014 MHz for 9M6SMC has been completed and sent to G4CVI at South Midland Communications ready for shipping to Sabah.

United States:

VE7FEI reports that Bill, W0MTK in DM59, now has a beacon on 50.0651.

Cosmic Noise

Leif Johansen, LA9ZV, writes: "Thanks for the 50 MHz DX bulletin. In issue 4/93 you discussed the cosmic noise. My QTH in Moss is 59.5° N 10.5° E and local time is UTC + 1h. (Summer +2h). The noise seems to come from a "hot spot" and can be clearly observed switching my two antennas. The noise level increase is about one S unit, and the same "pattern" has been the last three summers. You got the times wrong! On June 18, the noise is at 180° around 2300-2330 UTC. At 2000 local time, the noise is about 100°!

I have good antennas on 21 and 28 MHz, and believe the noise is also on HF. I'm not certain because the Eastern Europe RF curtain. G3JVL comments "textbook." G4IGO is right about noise and Es, sometimes when I have Es to the north, I have observed a few dB of "white noise". Our propagation to the N - NW is very interesting. (See QST Feb. 1967). On 28 MHz, I have worked 313+ DXCC and have seen hundreds of openings over the North Pole during evenings and nights, South America, U.S.A., Pacific, and sometimes JAs. Sometimes these openings are better in the north like OY-TF-OX-JW, etc.

I got my TS609S two years ago, and have seen many openings to the U.S.A. on 35 & 43 MHz. SM6PU for many years studied the night openings on 28-35 MHz and 43 MHz. I have heard some U.S.A. signals on 50 MHz, VE2TOW is

heard on winter/summer Aurora Es, also the OX3VHF beacon and 35/43 MHz are in until after 0200 UTC. The only 6m QSO I have made to the U.S.A. with the propagation is K8MD on July 1, 1993 at 0110. That night, OX and 35.2-35.6 MHz U.S. pagers were in until about 0200-0300. 28 MHz was open to the U.S.A. and VK6 also."

Leif sent along a listing of dates, times and directions from which he received the cosmic noise the strongest. From this list it quite likely that he is tracking the galactic center (GC). Some times the GC is below the horizon, and some times the directions are north of its rising azimuth. These suggest that he is also receiving sources north of the GC, but there is plenty of noise there too. We will have more on this subject in future issues.

EME News

From SM7AED's 6-mtr Newssheet: (ON4ANT in JO20ar) is looking for EME skeds with stations running at least two long yagis and kW. He is running 4*17b2 Cushcraft, 2*3CX800A7. Proposal by packet or EME net. ON4ANT@on7rc.bel.eu.

K6QXY reports that SM7BAE worked W7HAH Jan 31 at 0620; both stations running single yagis.

TS690 Audio Modification

by Mike Gotch, GOIMG from Jan. 94 Six News

I bought one of these rigs in 1992. During initial tests, I found the transmitted audio quality was not very good on 6m SSB (it was perfectly OK on other bands.) I was able to compare it with a TS680 I have and the difference was very noticeable.

I rang my supplier with these comments and he dispatched a replacement. Tests on this second rig showed exactly the same problem, although it was just slightly better. I decided to investigate by feeding a two-tone test signal into the mike socket and looking at the RF output on a scope.

The TS690 showed quite noticeable distortion at the crossover point, but the TS680 was OK. I took the covers off the TS690. Checking at the input of the 10 W driver module (Toshiba M57735) showed a clean crossover, but at the output the distortion was present.

Checking the voltage on pin 3 of the module (the bias pin), I found 6.8 V on the TS690 and 7.8 V on the TS680. I removed the wire from CN3 pin 4 (which goes to pin 3 of the module) and connected a separate 8 V supply. Rechecking at the output of the module and at the output of the 50 W PA now showed a clean crossover. The data sheet for the Toshiba M57735 calls for 9 V on pin 3!

The TS690 Service Manual shows 6.8 V at this point, so it would appear to be a design fault rather than a faulty rig. I built a small circuit (with 8 V regulator running from +13.8 V supply) on veroboard to solve the problem and mounted it close to the module.

Elsewhere in that issue, PA0ERA suggests: "Not all TS609S will respond to increasing the voltage on pin 3 of the Toshiba M57735 to 8 V. I suggest 9 V (Toshiba spec). The two blue wires attached to CN7 (filter unit) are susceptible to RF pick-up; fit ferrite beads. Finally, the small grey coax folded inside the filter unit should be re-routed outside of the filter compartment."

QRZ 1.825?

N6CA notes that more than a few of the 6m gang have been frequenting 160m CW. Might, he suggests (only half tongue-in-cheek), 1825 kHz, be a suitable liaison frequency for those of us who get on the air at night, long after 28885 has gone south?

QSL Cards

"Please ask in the next bulletin if anyone has ever gotten a QSL from VK4KJL?? My only unconfirmed Grid Field." -W4DR (who indicates 69 grid fields worked on 6m).

Six News indicates that there seems to be a problem with mail reaching the PO Box of SV5TS. A recent QSO with him on 15m suggests he is not aware of the problem. The vast majority of G stations who have went a QSL since late July have received no reply. Someone at the local PO seems to be collecting dollars at the moment! Register your QSL to guarantee delivery.

Pim, PAOTLX, asks in Six News, "why the sudden increase in non-QSLing DXpeditions? Waiting for hours in a pile-up, sending a \$ and SAE to a named QSL manager, should result in a QSL! I have at least four examples in 1993. At least mention during the pile-ups that you are a non-QSLing DXpedition. This will help to reduce the pile-ups quite nicely."

Mail Bag

Correspondence from UA0MF to K6QXY December 17, 1993

I read your query in the 50 MHz DX Bulletin Oct 93 issue. I never received a letter from you, but anyway I'd like to give you some info about my 50 MHz activity. By the way, it's a big problem to use the 50 MHz band here in Vladivostok due to a TV transmitter operating on Russian TV channel I (48-52 MHz).

I can operate only some of Mondays when the TV transmitter is in testing or repair—as is usual on every 3rd Monday of the month. The best opportunity to have a contact with me is on the 3rd Monday of July between 0001 til 0500Z on 50.110 CW and SSB.

January 1, 1994 the old USSR's callsign system will be changing, and I'll be using a new call sign of our club station (RKOLWA) or my new home call sign (UA0MF). All QSL only direct to my P.O. Box 20, Vladivostok, 690021, RUSSIA

The summer season I'll try to operate from my Rhusskiy Island's portable QTH (AS-66 for IOTA) with call sign UA0MF/A. My equipment is a TS-690S and 6 el. yagi.

Please look for me on 50.110 every 3rd Monday of the month. I hope to contact you and other 50 MHz DXers.

Disappearing Club Subscriptions

Six News reports problems with their former US Country Manager allegedly not forwarding subscription moneys. Should you still be waiting for your Six News issues, their subscription manager's QTH is Mr. C. Gare, G3WOS, Old White Lodge, 183, Sycamore Rd, Farnborough, Hants GU14 6RF U.K. The US Country Manager was Charles Ruhlman, WA2LPG, who is QTHR and (914)877-7512.